# USER GUIDE

**This guide includes important information on the use and storage of optical components from Sill Optics to extend the lifetime and preserve the warranty options.**

After receiving our product please inspect the product carefully and ensure that there is no damage caused by shipping. If so, please contact Sill Optics immediately.

## General use of optical products

- The product is a high precision optical instrument, please handle it with care.
- To protect thread and lens do not use unnecessary force while screwing the lens into the camera, scan system or holder.
- Do not open the optical product at any time, it could be damaged. If you open it, the warranty will expire.
- Avoid mechanical shocks and vibrations (-> exception: special glued versions)
- Do not use the product in very humid environments and avoid condensation inside the lens.
- Do not expose the lens to a sudden change of temperature or other thermal shocks.
- Do not expose the lens to any corrosively chemicals or gases.
- Pay attention to a safe and stable mounting of the lens.
- Do not try to repair a product yourself, contact our service in cases of any problem.

## Lens cleaning

- To protect the lens surface from scratches please do use clean, dry air for cleaning at first.
- Do not blow on the lens surface with your mouth.
- Using any cloth on a dusty lens surface may damage the coating or the lens surface.
- If using cloths for cleaning on a dust free surface make sure the cloth is clean, very soft and nonabrasive. We recommend optical cleaning wipes only.
- To get a better cleaning result you may use optical cleaning wipes moistened with alcohol or acetone. Pay attention that the wipe is only slightly moist.

## Instructions on electrical parts

- Keep all electrical parts away from water and other liquids.
- In case of contact with water, switch off the power to avoid an electrical shock.
- Do not use the product if any cable is damaged or cracked. Please contact our service for help.
- The product surface can become very hot. Do not touch it while in use. Make sure there is enough room for the heat to be dissipated. If needed use a forced air cooling.
- If you notice any smell, smoke or overheating, switch off the power immediately, disconnect the device from the power supply and contact our support.
- Do not use the product in explosive atmosphere.

## Special handling for LASER optics

- Avoid eye or skin exposure to direct or scattered laser radiation (depending on your laser class). Beware that optics focus the laser beam. That will increase radiation.
- Remove dust protection caps from the lens before applying laser radiation to it.
- Use only lasers approved for the optics (laser induced damage threshold/wavelength)
- Pay attention to our Short Pulse / Ultra Short Pulse recommendations in our datasheets.
- Dust on the lens surface can cause burn spots on the lens surface. It is critical to keep the lens surface clean. This is especially important with high power lasers. Please consider the cleaning information on the left side.
- Turn off the laser while zooming beamexpanders.

## Service and support

- phone: 0049 (0) 9129 9023 0
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